# 2005

# **Pendleton Fire Weather**

# **Operating Plan**

# PENDLETON FIRE WEATHER OPERATIONS PLAN 2005

#### LOCATION:

National Weather Service Office 2001 NW 56th Dr. Pendleton, OR 97801.

#### **NEW FOR 2005**

Zone 609 will be extended north across the Columbia River to include the western portion of Klickitat County west of Highway 97 affective April 1<sup>st</sup> 2005. The eastern Columbia River Gorge will be included in zone 609. See zone geographical description at the end of this operating plan for more detail of new zone boundary.

Red flag warning criteria for wind and low RH in zone 609 has been changed to take into account the increased winds associated with the Columbia River Gorge. See details in operating plan under Fire Weather Watches and Red Flag Warning criteria.

Red flag Warnings for poor RH recovery overnight will no longer be issued. Instead, whenever poor RH recover is expected it will be headlined in the zones.

#### **HOURS:**

The Pendleton Fire Weather Program is committed to establishing a program with staffed trained to respond to fire weather needs 24 hours per day. In addition a Fire Weather shift will be scheduled during the following times:

# Land Management Season

7:00 AM - 4:00 PM 5 days a week. Normally late March - early June and late September - October.

#### Fire Season

7:00 AM - 4:00 PM 7 days a week Normally early June to late September.

The National Weather Service office in Pendleton is open 24 hours a day, 7 day a week and is fully staffed. If there is a need to support a project, additional forecasters can be made available. However, under the provisions of the National Agencies/NWS Agreement (see appendix A), special services provided by the Pendleton Fire Weather office will be done on a reimbursable basis.

#### PHONE NUMBERS

Fire Weather Desk (541) 276-8134 General (541) 276-4493 Fax (541) 276-8253

#### INTERNET ADDRESS and E-MAIL:

http://newweb.wrh.noaa.gov/pdt

<u>mike.vescio@noaa.gov</u> Meteorologist-in-Charge

<u>dennis.hull@noaa.gov</u> Warning Coordinator Meteorologist <u>joe.solomon@noaa.gov</u> Fire Weather Program Manager

#### **STAFF**

Name Position

Mike Vescio Meteorologist-in-Charge

Dennis Hull Warning Coordination Meteorologist Jon Mittelstadt Science and Operation Officer

All Senior and Journeyman Forecasters will train and be certified to issue all forecast from the Fire Weather desk. However a core group of forecasters will provide the majority of forecasts during fire season.

Name Position

Joe Solomon Fire Weather Program Leader / Senior Forecaster / IMET

Mary Smith Senior Forecaster
Roger Cloutier Senior Forecaster
Vincent Papol Senior Forecaster
Zaaron Allen Senior Forecaster

Jeremy Wolf Journeyman Forecaster / IMET

Gordon Hepburn Journeyman Forecaster
Diann Coonfield Journeyman Forecaster
Cynthia Palmer Journeyman Forecaster
Alan Polan Journeyman Forecaster
Mike Cantin Journeyman Forecaster

#### COMMUNICATIONS

All forecasts including spot forecasts are input into the National Weather Service communication system, WIMS and on Pendleton's Internet home page. Forecasts can also be faxed to customers who do not have access to these systems. Internet address is: <a href="http://newweb.wrh.noaa.gov/pdt">http://newweb.wrh.noaa.gov/pdt</a>

#### **WEATHER BRIEFINGS**

Internet based weather briefings usually begin in May. During Land Management season briefings will be held Monday and Thursday. During peak fire season, normally mid June-September briefings will be daily at 0930 PDT. Phone briefings are available 24 hours per day.

#### **AGENCIES SERVED**

USFS: United States Forest Service BLM: Bureau of Land Management

NPS: National Park Service BIA: Bureau of Indian Affairs

USF&W: United States Fish and Wildlife ODF: Oregon Department of Forestry DNR: Southeast Washington Area

County and Local Fire Jurisdictions in southeast Washington, central and northeast

Oregon.

#### **FORECAST SERVICES**

#### **Land Management and Fire Weather Planning Forecasts:**

Routine land management planning forecasts are issued seasonally in the early and late part of the burning season. They are available twice a day Monday through Friday at 0900 and 1530 PDT. Specific start and stop dates are coordinated with customer agencies. Routine fire weather planning forecasts are available twice daily during the heart of the fire season, usually from early June through late September. They will be issued at 0900 and 1530 PDT. Offseason land management forecast area issued during the winter at 0900 PDT.

#### **Spot forecasts/Special request Forecasts:**

Spot forecast are available year round for wildfires, prescribed fires, or any other critical land management activities conducted by ALL land management agencies. The NWS will support non-federal, non-wildfire activities such as HAZMAT and search and rescue. We are urging land managers to customize spot forecast requests for the parameters that are needed and provide critical weather thresholds that may adversely impact the burn,

such as wind, relative humidity, or burn period. This will allow the forecaster to concentrate on the specific data and time line needed rather than a host of parameters that may be of little interest. Spot forecasts take precedence over normal office duties. <u>As implemented in 2003, the Region 6 National Weather Service offices will: require at least one observation from the fire site for prescribed spot requests. In addition valid times for spot forecasts will be 12 hours from issuance.</u>

Information required by the fire weather forecaster from the requesting agency is found on WS form D-1, items 1-12. A spot forecast for a planned ignition the next day may allow us to provide you with more lead time before the planned prescribed burn. Feedback of how well the forecast verified is extremely valuable in order to provide more accurate subsequent forecasts. As such the forecasters in Pendleton request all observations taken from the burn site be sent to our office. This may be accomplished through FAX or electronically. Spot forecast requests will be accepted either, electronically via our internet web site: <a href="http://spot.nws.noaa.gov/cgi-bin/spot/spotmon?site=pdt">http://spot.nws.noaa.gov/cgi-bin/spot/spotmon?site=pdt</a> or by fax at (541) 276-8253. Phone consultations are available 24 hours a day.

#### **NFDRS Trend Forecasts**

A numerical zone trend forecast is prepared and disseminated to WIMS by 1540 each afternoon from about late May through early October. In addition, two "point" forecasts are also prepared for Haystack and Fall Mountain RAWS. The trend forecasts are used to compute the expected NFDRS indices valid for the following day. The number of NFDRS indices forecast by the weather office depends only on the number of NFDRS observations input into WIMS by the fire agencies. If observations are not entered into WIMS by 1500, a forecast will not be produced for the zone(s).

#### **Incident Meteorologist Services**

Pendleton has two certified Incident Meteorologists (IMETS) on staff available for wildfire, HAZMAT, or other emergency dispatches. To request an IMET, contact the appropriate fire agency dispatch office.

#### NON-FORECAST SERVICES

There are several duties that fall into the non-forecast services, including but not limited to teaching assignments, customer meetings, customer consultations, preparation of annual reports, preparation of annual operating plans, program management, research and in-house training of personnel.

There is a need for advanced notice (3 weeks) for teaching assignments, customer meetings and consultations. The NWS-NWSEO Negotiated Agreement provides rules for

scheduling of bargaining unit employees. NWS management has limitations regarding modification of the work schedule after it has become fixed without paying overtime.

All requests for teaching assignments, customers meetings and customer consultations will be honored provided they are scheduled more than three weeks ahead of time, and they do not conflict with other Fire Weather commitments. NWS Pendleton will make every effort to fulfill requests for teaching assignments, customer meetings and consultations that are scheduled with less than three weeks lead time, or conflict with other Fire Weather commitments. For training requests, please contact Joe Solomon at NWFO Pendleton (541) 276-8134 or by e-mail <a href="mailto:joe.solomon@noaa.gov">joe.solomon@noaa.gov</a>

#### FIRE WEATHER WATCHES AND RED FLAG WARNINGS:

Please refer to the Glossary for the formal definitions of Fire Weather Watches and Red Flag Warning events. Specific Red Flag criteria differ for each situation and district. The following are criteria which would warrant a Fire Weather Watch/Red Flag Warning in the Pendleton Fire Weather District:

#### Criteria:

Any or a combination of the following combined with <u>very dry fuels</u> are criteria for the issuance of a Fire Weather Watch or a Red Flag Warning depending on the lead time:

- Dry Lightning (scattered coverage and LAL of 6) Thunderstorms producing less than .10 of an inch of precipitation and RH < 20% OR fuels remain dry or critical after a lightning event.
- Any lightning (wet or dry) after an extended dry period or low fuel moistures (as defined at the bottom of Table A).
- Haines Index of 6 in combination with RH of 15% or less.
- Strong winds combined with low relative humidity which meet the criteria listed below:

Zones (630, 631, 632, 633, 634, 635, 638, 675 & 681) for two hours at two locations (determined by the RH/WIND in Table A shown below)

Zone 630 south of the Maury Mountains – the criteria will be wind 20 mph or greater and relative humidity of 10% or less.

Zone 609: criteria is at least TWO RAWS reporting RH 20% or less AND wind speed 10 mph or greater for 2 hours.

Zone 610: criteria is TWO stations for multiple hours in either scenario A or B below:

- A) HeHe Butte RAWS and Haystack RAWS reporting RH of 15 percent or less AND wind speed of 10 mph or greater for 4 hours in a 9-hour block (afternoon and evening) OR
- B) HeHe Butte RAWS OR Haystack RAWS reporting RH of 15 percent or less AND wind speed of 10 mph or more for 4 hours in a 9-hour block (afternoon and evening) AND one other RAWS reporting the same for two hours.

Zone 611: criteria is any TWO stations (including Timothy RAWS) reporting RH of 15 percent or less AND wind speed of 10 mph or greater for at least TWO hours

**Table A**. National Weather Service Pendleton Wind vs RH Red Flag/Fire Weather Watch Criteria Table

Note: This is only one element in determining the necessity for a Red Flag Warning or Fire Weather Watch and shall not be the solitary justification.

#### Columbia Basin ZONES 631 & 675

#### SUSTAINED 20 FT WIND OVER WIDESPREAD AREA

(10 MINUTE AVERAGE in MPH)

		5	10	15	20	25	30
	30						W
	25					W	W
RH(%)	20				W	W	W
	15			W	W	W	W
	10			W	W	W	W

## The Central and Northeast Mountains ZONES 630...632-635...638 AND ZONE 681

#### SUSTAINED 20 FT WIND OVER WIDESPREAD AREA

(10 MINUTE AVERAGE in MPH)

		10	15	20	25	30	35
	30						
	25					W	W
RH(%)	20			W	W	W	W
, ,	15			W	W	W	W
	10		W	W	W	W	W

A Red Flag Warning or Fire Weather Watch may be issued if the wind and humidity fall within the warn section of Table A and fuels, both live and dead are dry.

- 1. The forecaster is required to check with fire/land management agencies to ensure that fuels are dry enough to support large fire potential.
- 2. 1000 Hr fuel moisture less than 12% and 100 Hr fuel moisture less than 10%
- 3. Also refer to GACC "Dryness Level" for additional fuel moisture evaluation

#### **Red Flag Warning Dissemination:**

Red Flag Warnings and Fire Weather Watches shall be issued using the Red Flag Statement (RFW) and will be headlined in the routine Fire Weather Forecast. All Red Flag Warnings and Fire Weather Watches will be cancelled using the Red Flag Statement (RFW) and the Fire Weather Forecast will include a headline stating such.

All Red Flag Warnings will be disseminated utilizing the National Warning System (NAWAS) network

All issuances of Red Flag events will be coordinated beforehand with the agencies included in the watch/warning area and with adjacent fire weather offices if the watch/warning is for a zone on a common district boundary. In order to rapidly disseminate Fire Weather Watches/Red Flag Warnings or other information of rapidly changing or hazardous weather conditions that do not meet Red Flag criteria, but will affect fire control or pose a safety threat a priority calling list has been established. NWFO Pendleton will contact the following dispatch office who will provide the appropriate agency notification. If the primary dispatch office is not available, the backup dispatch office may be requested to conduct the notification.

Primary Phone Number: 541-278-3732 Umatilla Dispatch
First Backup: 541-963-7171 NE Oregon Dispatch
Second Backup: 541-575-1321 Malheur Dispatch
Third Backup: 541-416-6800 Central Oregon Dispatch

#### **USER AGENCY RESPONSIBILITIES**

There are several responsibilities of the user agencies including:

• 1300 PST NFDRS observations.

- Site observations for Spot forecast requests. <u>A representative observation from the</u> burn site is required for all prescribed fire spot forecast requests.
- Quality Control of RAWS observations
- Timely maintenance of RAWS sites.

#### FORECAST VERIFICATION

Routine verification will be made on Red Flag Warnings and Spot Forecast turnaround times. In addition selected NFDRS trend forecasts for temperature, relative humidity, and fuel moisture will be verified. Results of the verification will be published in the Fire Weather Annual Summary. The National Weather Service will work with local fire agencies and the Pacific Northwest Coordination Group to develop a baseline for product verification.

#### FIRE WEATHER FORECASTER PROFICIENCY & CURRENCY STANDARDS

The National Weather Service proficiency standards for service to the fire weather users are shown in Appendix A. The National Weather Service and the Pacific Northwest Wildfire Coordination Group will review the progress in meeting the standards. Prior to each fire season, the Annual Operating Plan will provide a list of currently qualified forecasters and those expected to be qualified at each weather Forecast office who will be providing fire weather services during the upcoming year.

#### FORECAST DISTRICT

The Pendleton Fire Weather District currently covers the east slopes of the Cascades mountain range from the Deschutes National Forest to the alpine reaches of the Yakama Indian Reservation, central Oregon, the northeast quadrant of Oregon (including Baker county and Harney county north of highway 20), and Southeast Washington (Benton, Franklin, Klickitat, Yakima Walla Walla, Columbia, Garfield and Asotin counties). New this year is the extension of zone 609 north back into the western half of Klickitat County. Please see the district map for specific outlines of the Fire Weather Zones.

#### **GEOGRAPHICAL AREA DESCRIPTIONS**

The Pendleton Fire Weather forecast will be sectioned by Fire Weather Zone. This will result in 12 separate zone forecasts. These zones are based on terrain, elevation, weather characteristics, and political boundaries. The following are descriptions of each of the twelve Fire Weather Zones in the Pendleton Fire Weather district.

East Slopes of North Oregon & Southern Washington Cascades – Fire Weather Zone 609

Represents the portion the east slopes of the Cascades from Mt Hood NF to western Klickitat County as well as adjacent foothills under ODF & WA DNR protection.

Bounded by the Cascade crest on the west, the Yakima County line on the north and the northern boundary of the Warm Spring Indian Reservation on the south. The eastern boundary lies along Highway 97 from Satus Pass south to Biggs, OR, then runs west along the Columbia River to The Dalles, then follows Highway 197 south to near Maupin then roughly follows Wapinita Road to the northern border of the Warm Springs Indian Reservation boundary.

This zone has elevations that range from the peaks of Mt Hood (11000 feet) down to the eastern Columbia River Gorge (200 feet) and includes the Foothills of the Cascades.

# East Slopes of Central Oregon Cascades - Fire Weather Zone 610

Represents Warm Springs Indian Reservation and the Sisters RD of the Deschutes NF.

Bounded by the Cascade crest on the west and the boundaries of Warm Springs Reservation and Sisters RD on the north, east and south.

This zone has elevations that range from the crest of the Cascades (10000 feet) down to the Foothills of the Cascades (2000 feet).

# **Deschutes NF (minus Sisters RD) - Fire Weather Zone 611**

Includes the Deschutes NF with the exception of the Sisters RD...includes interior islands of private land and high Cascade wilderness areas.

Bounded on the west by Cascade crest...on the north by the southern boundary of the Sisters RD...and on the east and south by the Deschutes Forest boundary.

This zone has elevations that range from the crest of the Cascades (1000 feet) down to the high plateau deserts (4000 feet).

# **Central Oregon Mountains - Fire Weather Zone 630**

Represents the Ochoco NF, Crooked River National Grasslands, Prineville ODF, Prineville BLM of Central Oregon.

Bounded on the west by the borders of the Deschutes NF and Warm Springs Indian Reservation. North boundary runs west to east from the northeast section of the Warm Springs Indian Reservation to north central Wheeler County. Southern boundary roughly follows the southern border of Deschutes County east of the Deschutes NF and includes

the extreme northeast portion of Lake County around Glass Butte. The west boundary roughly follows the east border of Crook County then cuts west across southern Wheeler County just north of the northern Crook County border then turning north again in western Wheeler County meeting the northern border in north central Wheeler County.

This zone covers the mountains of central Oregon including the grasslands and high plateau deserts. Elevations range from 2500 feet in the Grasslands to 7000 foot peaks in the Ochoco NF.

# Columbia Basin of Oregon and Southeast Washington - Fire Weather Zone 631

Represents the Lower Columbia Basin of Oregon and Washington. Includes the Foothills of the Blue Mountains. Agencies responsible for fire protection in this area are ODF Pendleton, ODF The Dalles, Prineville BLM, Spokane BLM, Vale BLM, and southeast DNR.

West boundary is the Columbia River Gorge. South boundary follows the Foothills of the Blue Mountains from north central Oregon into southeast Washington. North boundary follows the Horse Heaven Hills through southern Benton County of Washington then turns north following the Columbia River to the east border of the Hanford Reach national Monument. Then it runs east along the northern borders of Franklin, Columbia, Garfield and Asotin Counties of Washington.

This zone covers the flat or smooth rolling hills in the Lower Columbia Basin of Northeast Oregon and Southeast Washington. Elevations range from about 200 ft MSL along the Columbia River to approximately 3000 ft MSL along the foothills of the Blue Mountains.

# **Southern Blue and Strawberry Mountains - Fire Weather Zone 632**

Represents the Southern Blue Mountains in the Ukiah region down to the Strawberry Mountains in southern Grant County and northern Harney County. Agencies responsible are the ODF John Day, ODF Fossil, the Malheur National Forest, the Ochoco National Forest, Burns BLM, and Prineville BLM.

The west boundary follows the east boundary of zone 630 from north central Wheeler County down the eastern Crook County border then Down the west Harney County line to Highway 20. The southern border follows Highway 20 through Burns to the Malheur County line. The east border runs north roughly following the eastern Grant County border and the western border of Union County to near Ukiah. The north boundary runs

along the Foothills of the Blue Mountains from north central Wheeler County through southern Umatilla County.

This zone is composed of varying and complex terrain, ranging from mountains with numerous steep sloped and narrow drainages to flat plateaus, meadows, and river valleys. Elevations range from about 3200 ft MSL in the John day valley to over 8500 ft MSL in the Strawberry mountains

#### Northern Blue Mountains - Fire Weather Zone 633

Represents the Elkhorn and Blue Mountains as well as the Grande Ronde Valley. Agencies responsible are the ODF Baker City, the Umatilla National Forest, the Wallowa Whitman National Forest, the Malheur National Forest, and Vale BLM.

The west boundary starts at Highway 26 and runs north along the Grant and Baker County line. Then follows the Union and Umatilla County line north until reaching the Blue Mountain foothills around Pendleton. The it follows the Foothills into southeast Washington around the northern tip of the Blue Mountains which includes the souterhn portions of Columbia and Garfield Counties. The it runs south along the east boundary of the Umatilla NF to the northern tip of the Grande Ronde Valley. Then it runs down the east side of the valley until it hits the north border of Baker County. From there it jogs around the Elkhorn mountains ending up back at Highway 26.

Terrain in this area is highly variable and complex, ranging from mountains with steep slopes and narrow canyons to flat plateaus, meadows, and river valleys. Elevations range from below 2500 ft MSL in the Grande Ronde valley to near 9000 ft MSL in the Elkhorn mountains.

# Eagle Cap District - Fire Weather Zone 634

This area is entirely within the Wallowa mountains and the majority of Eagle Cap Wilderness area. Terrain in this area is very complex with high mountains and numerous very steep slopes and narrow drainages. Elevations range from below 3500 ft MSL to near 10,000 ft MSL. The agency chiefly responsible is the Wallowa Whitman National Forest.

## Wallowa District - Fire Weather Zone 635

This represents the County of Wallowa minus the Wallowa Mountains. Agencies responsible are the ODF Baker City, ODF Wallowa, the Wallowa Whitman National Forest, and Vale BLM.

This zone contains highly variable terrain as well, ranging from mountains with steep, narrow drainages to the deep canyons of the Snake and Imnaha river, to open, flat Wallowa Valley. Elevations range from near 2000 ft MSL to near 6500 ft MSL.

## Baker Valley - Fire Weather Zone 638

This represents most of Baker County except for the Elkhorn Mountains in northwest Baker County. Agencies responsible are the ODF Baker City, the Wallowa Whitman NF and Vale BLM.

This zone contains highly variable terrain as well, ranging from mountains with steep, narrow drainages to the deep canyons of the Snake, to open, flat Baker Valley. Elevations range from near 3500 ft MSL to near 6000 ft MSL

## Eastern Washington Southern Columbia Basin - Fire Weather Zone 675

This represents Columbia Basin west of the Columbia River to the Foothills of the east slopes of the southern Washington Cascades. Agencies responsible for fire protection in this area are the Yakama BIA, Hanford Fire, Southeast DNR, Spokane BLM, Benton County Fire, Franklin County Fire

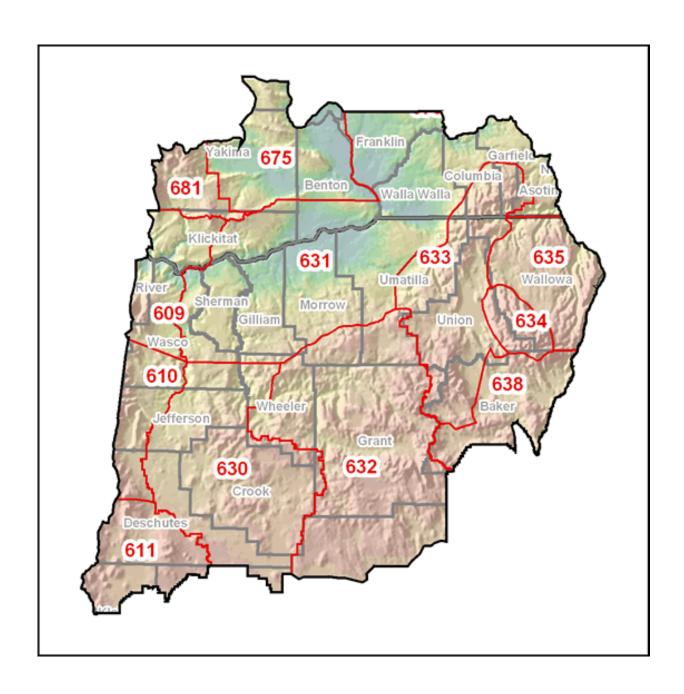
The southern border runs west to east from Satus pass along the Horse Heaven hills to the Columbia River. Form there it runs north along the Columbia River (including the Hanford Reach National Monument) to I-94. Then it follows I-94 west to Ellensburg then turns south to Yakima following I-82. From Yakima it follows the Cascade Foothils south back to Satus Pass.

This area is characterized as a wide river basin with numerous west to east running ridge lines, and smooth rolling hills in the Lower Columbia Basin of Southeast Washington. Elevations range from about 200 ft MSL to just below 4000 ft MSL along the Rattlesnake Hills.

# Yakama Alpine District - Fire Weather Zone 681

This represents the southwest portion of Yakima County with is the Yakama Indian Reservation. The agency responsible for fire protection in this area is the Yakama BIA.

This areas covers the east slopes of the southern Cascades crest down to the southern boundary of the Yakima Indian agency. Elevation ranges from near 2000 ft MSL to 12000 ft MSL Mount Adams peak.



# 2005 NWS Pendleton NFDRS Station Index

ZONE	NABAE	Tours	NUMBER	OWALED	LAT	LON	EL EV
ZONE	<u>NAME</u>	Type	NUMBER	OWNER	<u>LAT</u>	LON	<u>ELEV</u>
609	Pollywog	R	350912	USFS	45.48	-121.45	3320
609	Wamic Mill	R	350913	USFS	45.23	-121.45	3320
000	vvarne iviii	1	330313	0010	40.20	121.40	3320
610	Mt. Wilson	R	350916	BIA	45.04	-121.67	3980
610	Mutton Mountain	R	350917	BIA	44.93	-121.20	4000
610	HeHe1	R	350920	BIA	44.96	-121.50	2689
610	Metolius Arm	R	352110	BIA	44.61	-121.63	3320
610	Colgate	R	352620	USFS	44.32	-121.61	3280
610	Sidwalter	M	350909	BIA	44.93	-121.53	3000
610	Shitike Butte	M	352102	BIA	44.75	-121.61	5000
610	Eagle Butte	M	352106	BIA	44.84	-121.23	3100
610	Warm Springs	M	352108	BIA	44.76	-121.25	1632
010	vvaim opinigo	101	002100	Dirt	11.70	121.20	1002
611	Black Rock	R	353342	USFS	43.53	-121.81	4880
611	Lava Butte	R	352618	USFS	43.93	-121.34	4655
611	Tumalo Ridge	R	352621	ODF	44.05	-121.40	4000
611	Teepee Draw	R	352622	USFS	43.83	-121.08	4740
611	Round Mountain	R	352605	USFS	43.76	-121.72	5900
611	Cabin Lake	R	353402	USFS	43.50	-121.06	4650
630	Brer Rabbit	R	352208	USFS	44.33	-119.77	5900
630	Brown's Well	R	353428	BLM	43.56	-120.22	4560
630	Haystack	R	352107	USFS	44.47	-121.13	3240
630	Board Hollow	R	352109	ODF	44.36	-120.41	4120
630	Cold Springs	R	352701	USFS	44.35	-120.13	4695
630	Badger Creek	R	352711	USFS	44.03	-120.41	5680
630	Salt Creek	R	352712	BLM	44.33	-120.67	5670
630	Slide Mountain	R	352207	USFS	44.46	-120.28	5700
631	Wasco Butte	R	350919	ODF	45.61	-121.33	2345
631	Umatilla	R	351316	FWS	45.92	-119.57	270
631	Middle Mountain	R	350812	ODF	45.58	-121.60	2600
631	Goldendale	R	452403	DNR	45.87	-120.72	2054
631	Juniper Dunes	R	453201	BLM	46.36	-118.87	950
631	North Pole Ridge	R	350915	BLM	45.03	-120.54	3480
631	Patjens	R	351001	BLM	45.32	-120.92	2230
631	The Dalles Airport	М	452406	NWS	45.60	-121.10	210
631	Pendleton Airport	М	351307	NWS	45.68	-118.85	1482
631	Walla Walla Airport	М	453302	NWS	46.10	-118.28	1166
632	Tupper	R	351202	USFS	45.07	-119.49	4000
632	Board Creek	R	352330	USFS	44.60	-119.28	5000
632	Case	R	352329	USFS	44.96	-119.03	3800

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632	Crane Prairie	R	352305	USFS	44.15	-118.48	5373
632	Fall Mountain	R	352327	USFS	44.30	-119.04	5949
632	Antelope	R	353524	USFS	44.05	-118.75	6460
632	Crow Flat	R	353515	USFS	43.83	-118.93	5130
632	Mitchell	R	352209	ODF	44.58	-120.18	2620
632	Allison	R	353501	BLM	43.92	-119.58	5320
633	Alder	R	453803	USFS	46.27	-117.50	4500
633	Eden	R	351518	USFS	45.93	-117.58	4000
633	JRidge	R	351414	USFS	45.11	-118.34	5180
633	Fox Hill	R	351420	ODF	45.36	-118.13	3608
633	Black Mountain	R	351317	USFS	45.60	-118.24	5425
634	PtProm2	R	351419	USFS	45.35	-117.70	6607
634	Minam	R	351416	USFS	45.11	-118.27	4320
635	Harle Butte	R	351502	USFS	45.32	-116.87	6071
635	Roberts Butte	R	351520	USFS	45.68	-117.36	4263
636	Moon Hill	R	353526	BLM	42.86	-118.68	6100
636	Bald Mountain	R	353522	BLM	43.56	-118.40	5480
636	PHill	R	353521	BLM	42.83	-118.94	4880
636	Foster Flat	R	353525	BLM	42.97	-119.25	4999
636	Basque Hills	R	353520	BLM	42.26	-118.98	4990
636	Riddle Mountain	R	353511	BLM	43.10	-118.50	6281
636	Wagontire	R	353512	BLM	43.34	-119.88	6510
636	Sage Hen	R	353517	BLM	43.52	-119.29	4400
636	Little McCoy Creek	R	353527	BLM	42.71	-118.51	5080
637	Kelsey Butte	R	353613	BLM	43.92	-117.97	5200
637	Owyhee Ridge	R	353614	BLM	43.52	-117.24	4400
637	Red Butte	R	353616	BLM	43.53	-117.80	4460
637	Grassy Mound	R	353612	BLM	42.63	-117.42	4500
638	Morgan Mountain	R	352420	BLM	44.49	-117.30	3600
638	Sparta Butte	R	352418	USFS	44.90	-117.37	4278
638	Blue Canyon	R	352416	USFS	44.67	-117.94	4200
638	Flagstaff Hill	R	352123	BLM	44.81	-117.73	3945
638	Baker Airport	М	352419	NWS	44.83	-117.82	3368
675	Hanford	М	452802	DOE	46.56	-119.60	682
675	Saddle Mountain	R	452701	FWS	46.69	-119.69	650
681	Signal Peak	R	452307	BIA	46.23	-121.14	5052
681	Grayback	R	452404	DNR	45.99	-121.08	3766
681	Mill Creek	R	452304	BIA	46.27	-120.87	2820
681	Teepee Creek	R	452317	BIA	46.16	-121.03	2980
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